AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): An etching solution having an etch rate of 2 Å/minute or

greater for a film having a relative dielectric constant of 8 or higher (a High-k film), and whose

ratio of the etch rate for a thermal oxide (THOX) film to the etch rate for a High-k film ([THOX

etch rate]/[High-k film etch rate]) is 50 or less,

which contains hydrogen fluoride (HF), an ether compound and optionally water,

wherein the ratio of HF: the ether compound: water is 3 mass% or greater: 50 75 to 97

mass%: 10 5 mass% or less,

wherein the ether compound is at least one member selected from the group consisting

of:

compounds represented by General Formula (1),

 R_1 -O-(CH₂CH₂-O)n-R₂ (1),

wherein n is 1, 2, 3 or 4, R₁ and R₂ may be the same or different and each represents a

hydrogen atom, a lower alkyl group or a lower alkyl carbonyl group, with the proviso that R₁

and R₂ are not both hydrogen atoms,

propylene glycol monomethyl ether,

propylene glycol monopropyl ether, and

propylene glycol monobutyl ether.

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2. (original): An etching solution according to Claim 1, wherein the High-k film has a relative dielectric constant of 15 or greater.

3. (original): An etching solution according to Claim 1, wherein the High-k film is

a hafnium oxide film, a zirconium oxide film, or a lanthanum oxide film.

4. (original): An etching solution according to Claim 1, wherein the High-k film

comprises at least one member selected from the group consisting of hafnium silicate (HfSiO_x),

hafnium aluminate (HfAlO), HfSiON, HfAlON, ZrSiO, ZrAlO, ZrSiON, ZrAlON, alumina

(Al₂O₃), HfON, ZrON and Pr₂O₃.

5. (original): An etching solution according to Claim 1, wherein the etch rate for the

thermal oxide (THOX) film is 100 Å/minute or less.

Claims 6-11 (canceled).

12. (previously presented): An etching solution according to Claim 1, wherein the

ether compound has a relative dielectric constant of 30 or less.

13. (previously presented): An etching solution according to Claim 1, wherein the

ether compound contains at least one carbonyl group in its molecular structure.

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14. (previously presented): An etching solution according to Claim 1, wherein the ether compound has at least one hydroxy group in its molecular structure.

- 15. (previously presented): An etching solution according to Claim 1, wherein the ether compound is at least one member selected from the group consisting of, monoglyme and diglyme.
- 16. (previously presented): An etching solution according to Claim 1, wherein the ether compound is at least one member selected from the group consisting of ethylene glycol methyl ether, ethylene glycol diethyl ether, diethylene glycol methyl ether, diethylene glycol diethyl ether, triethylene glycol diethyl ether, triethylene glycol diethyl ether, triethylene glycol diethyl ether, tetraethylene glycol diethyl ether, and polyethylene glycol dimethyl ether.
- 17. (previously presented): An etching solution according to Claim 1, wherein the ether compound is at least one member selected from the group consisting of ethylene glycol monomethyl ether acetate, ethylene glycol monoethyl ether acetate, ethylene glycol monobutyl ether acetate, diethylene glycol monomethyl ether acetate, diethylene glycol monomethyl ether acetate, diethylene glycol monomethyl ether acetate and triethylene glycol monoethyl ether acetate.

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ether compound is at least one member selected from the group consisting of an ethylene glycol monomethyl ether, ethylene glycol monopropyl ether,

(previously presented): An etching solution according to Claim 1, wherein the

polyethylene glycol monomethyl ether, ethylene glycol monoisopropyl ether and ethylene glycol

monobutyl ether.

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- 19. (canceled).
- 20. (canceled).
- 21. (original): A method for producing an etched article using the etching solution of Claim 1, the method comprising a step of etching an object to be etched having a silicon oxide film and a film having a relative dielectric constant of 8 or greater, and a gate electrode that is formed on the film having a relative dielectric constant of 8 or greater.
 - 22. (canceled).
- 23. (currently amended): A method for-using etching a substrate including a film having a relative dielectric constant of 8 or higher (a High-k film) and a thermal oxide film, which comprises contracting the substrate with an etching solution having an etch rate of 2 Å/minute or greater for a film having a relative dielectric constant of 8 or higher (a High-k film),

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and whose ratio of the etch rate for a thermal oxide (THOX) film to the etch rate for a High-k film ([THOX etch rate]/[High-k film etch rate]) is 50 or less,

the etching solution containing hydrogen fluoride (HF), an ether compound and optionally water,

wherein the ratio of HF: the ether compound: water is 3 mass% or greater: 50 75 to 97 mass%: 10 5 mass% or less;

wherein the ether compound is at least one member selected from the group consisting of; compounds represented by General Formula (1)

 R_1 -O-(CH₂CH₂-O)n-R₂ (1),

wherein n is 1, 2, 3 or 4, R₁ and R₂ may be the same or different and each represents a hydrogen atom, a lower alkyl group or a lower alkyl carbonyl group, with the proviso that R₁ and R_2 are not both hydrogen atoms,

propylene glycol monomethyl ether,

propylene glycol monopropyl ether and

propylene glycol monobutyl ether.